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Polymer films as acoustic matching layers

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This paper appears in: Ultrasonics Symposium, 1990. Proceedings., IEEE

Careers/Jobs

Meeting Date: 12/04/1990 - 12/07/1990

Publication Date: 4-7 Dec. 1990 Location: Honolulu, HI USA On page(s): 1337 - 1340 vol.3

Reference Cited: 4

Inspec Accession Number: 4096706

Abstract:

Polymer films such as polyimide and Parylene were investigated as acoustic m layers at frequencies in the 100-200-MHz range. Polyimide films were spin coa Parylene films were vapor deposited on silicon and glass substrates, respectiv impedance, velocity of sound, and acoustic attenuation of these films were me The curing temperature of the polyimide films was also varied to determine th dependence of the material properties on processing conditions. The impedan films were measured to be in the 2.7 to 3.7 Mrayl range. The measurements that these films promise good transmission efficiencies between most liquids a especially low impedance solids such as silicon, glass, and quartz

Index Terms:

acoustic impedance acoustic materials polymer films ultrasonic absorption ultrasoni 100 to 200 MHz Parylene Si substrate acoustic attenuation acoustic matching layer temperature glass substrates liquids polyimide processing conditions sound veloci coated films transmission efficiencies vapour deposited films

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